**Algebra 2/Trig: Problem Solving Task: Chapter 4**

**WARM UP**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_

To find the volume of a box (prism):

height



length

width

1. Given the length is represented by 7, the width is three less than the length, and the volume is represented by 252. Determine the height. SHOW YOUR WORK!!!! (this will help for the real task)

Length =

Width =

How do you find height?

1. The volume of a different box is 360 m3. The length of the box is (x+2), the width is (11 – x) and the height is 3x. Find the numerical length, width, and height. Each side is a WHOLE number. (x is also a whole number).

Volume = l \* w \* h

1. The volume of another box is 30 m3. Determine each dimension (they are all whole numbers)

*Hint: the volume of a box is: l\*w\* h (3 things multiplied together). How could you represent the expression above as 3 things multiplied together?*